

IN THE CLAIMS:

Please amend the claims as follows.

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1. (Currently Amended) A method of downloading an application software in native code to a receiver/decoder, comprising the steps, at the receiver decoder of:
receiving a bitstream including the application software in interpretative native code;
downloading into the receiver/decoder a loader in native code for loading the application software in interpretative code from the bitstream; and
downloading the application software in interpretative native code into the receiver/decoder from the bitstream using said downloaded data loader in native code, and
storing said software in native code into the receiver/decoder.

2. (Currently Amended) The method according to Claim 1, wherein the downloaded data loader is deleted from the receiver/decoder after the application software has been downloaded from the bitstream.

3. (Currently Amended) The method according to Claim 1, wherein the downloaded data loader is subsequently stored in non-volatile memory of the receiver/decoder.

4. (Previously Amended) The method according to Claim 3, wherein the non-volatile memory is a Flash memory volume of the receiver/decoder.

Claim 5 (Cancelled)

6. (Currently Amended) The method according to claim 1, wherein a portion only of the application software stored in the receiver/decoder is replaced by a corresponding portion of the application software downloaded by the downloaded data loader.

Claims 7 and 8 (Cancelled)

9. (Previously Amended) The method according to Claim 44, further comprising downloading module tables having the same TID.

Claims 10-12 (Cancelled)

13. (Previously Amended) The method according to Claim 47, wherein the version identification comprises a code for the version of the receiver/decoder and a code for the manufacturer of the receiver/decoder.

Claims 14-19 (Cancelled)

20. (Currently Amended) A receiver/decoder comprising:
a receiver for receiving a bitstream including ~~an application software~~ in ~~interpretative native~~ code;
storage means; and
downloading means for downloading ~~from the bitstream~~ into the storage means a loader in native code for loading the ~~application software~~ in ~~interpretative native~~ code from the bitstream ~~into the receiver/decoder~~.

21. (Currently Amended) The receiver/decoder according to Claim 20, further comprising means for deleting the downloaded ~~data~~ loader from the storage means after the ~~application software~~ has been downloaded from the bitstream.

22. (Currently Amended) The receiver/decoder according to Claim 20, further comprising a non-volatile memory for storing the downloaded ~~data~~ loader after the ~~application software~~ has been downloaded from the bitstream.

23. (Previously Amended) The receiver/decoder according to Claim 22, wherein the non-volatile memory is a Flash memory volume of the receiver/decoder.

Claim 24 (Cancelled)

25. (Currently Amended) The receiver/decoder according to claim 20, wherein the downloaded data loader is adapted to replace a portion only of the application software stored in the receiver/decoder by a corresponding portion of the application software downloaded thereby.

26. (Previously Amended) The receiver/decoder according to claim 20, arranged to download tables.

27. (Previously Amended) The receiver/decoder according to Claim 26, wherein said downloading means is arranged to download a table having a table identification ("TID") and a predetermined table identification extension ("TID-extension") so as to download a directory table, to determine from the content of the directory table the TID-extensions of module tables having the same TID as the directory table, and to download the module tables having the same TID as that of the downloaded directory table and TID-extensions determined from the downloaded directory table so as to download said loader.

28. (Previously Amended) The receiver/decoder according to Claim 26, wherein said downloading means is arranged to download a directory table having a predetermined TID and containing, for each of a plurality of version identifications of a receiver/decoder, a respective TID associated with that version identification, to determine the version identification of the receiver/decoder, and to download a directory table having a TID associated with a version number of the receiver/decoder and a predetermined TID-extension.

29. (Previously Amended) The receiver/decoder according to Claim 27, wherein said downloading means is arranged to determine whether a directory version identification of a currently transmitted directory table is more recent than the directory

version identification of a previously downloaded directory table having the same TID as the currently transmitted directory table, and if not, to abort the downloading of said loader.

Claim 30 (Cancelled)

31. (Currently Amended) The receiver/decoder according to claim 20, wherein said downloading means is arranged to download a second loader included in the application software included in said bitstream for downloading one of the first-mentioned loader and the application software.

Claims 32 and 33 (Cancelled)

34. (Previously Amended) The transmission system according to claim 53, wherein said tables have respective different TID-extensions other than a predetermined TID-extension; said system further comprising means for generating a respective directory tables for the plurality of modules having the same TID, each directory table having that TID and said predetermined TID-extension, the directory table containing for each of the modules a name of that module and the respective TID-extension.

35. (Previously Amended) The transmission system according to claim 52, further comprising:

means for generating a directory table having a predetermined table identification ("TID") and containing, for each of a plurality of version identifications of a receiver/decoder, a respective TID associated with that version identification.

36. (Previously Amended) The transmission system according to claim 52, further comprising means for including in each transmitted table a version identification therefor.

39. (Currently Amended) A signal including at least one loader for loading an

application software in native code into a receiver/decoder, and the application software associated with the at least one loader, the at least one loader being divided into a plurality of modules and the application software associated with the at least one loader being divided into a respective plurality of modules.

43. (Currently Amended) The method according to claim 1, wherein the bitstream includes at least one data loader, said method further comprising:

dividing the at least one data loader into a plurality of modules; and
dividing the application software into a respective plurality of modules, each plurality of the application software modules being associated with a respective plurality of data loader modules.

44. (Currently Amended) The method according to claim 43, further comprising:

formatting the plurality of data loader modules as respective tables, the tables having the same respective table identification ("TID") and respective different table identification extensions ("TID-extensions") at a transmission system; and

formatting the plurality of the application software modules as a respective table, the tables having the same respective TID as the tables of the data loader modules associated therewith and respective different TID-extensions at the transmission system.

45. (Previously Amended) The method according to claim 9, wherein said tables have respective different TID-extensions other than a predetermined TID-extension, and further comprising:

generating a respective directory table for the plurality of modules having the same TID, the directory table having said predetermined TID-extension and the same TID, the directory table containing for the plurality of modules a name of a module and a respective TID-extension.

46. (Currently Amended) The method according to claim 45, further comprising:

downloading one of the tables having the predetermined TID-extension so as to download a directory table;

determining from the content of the directory table the TID-extensions of the module tables having the same TID as the directory table; and
downloading the module tables having the same TID as that of the downloaded directory table and TID-extensions determined from the downloaded directory table.

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47. (Previously Amended) The method according to claim 1, further comprising:
generating a directory table having a predetermined table identification ("TID") and containing, for a plurality of version identifications of a receiver/decoder, a respective TID associated with that version identification.

48. (Previously Amended) The method according to claim 13, further comprising:
downloading said directory table having the predetermined TID; and determining the version identification of the receiver/decoder, wherein downloading a directory table comprises downloading that one of the tables having a TID associated with a version number of the receiver/decoder and a predetermined TID-extension.

49. (Currently Amended) The method according to claim 45, further comprising:
including in a transmitted directory table a directory version identification therefor;
determining at the receiver/decoder whether the directory version identification of a currently transmitted directory table is more recent than the directory version identification of a previously downloaded directory table having the same TID as said currently transmitted table; and
aborting downloading the data if the currently transmitted directory table is not more recent.

50. (Currently Amended) The method according to claim 1, further comprising:
including in the bitstream a data software version identification of the data software;

determining, at the receiver/decoder, whether the data software version identification of received data software is more recent than the data software version identification of currently stored data software; and

downloading the received data software from the bitstream if the received data software is more recent.

51. (Currently Amended) The method according to claim 1, further comprising:
transmitting a second data loader included in said bitstream, at a transmission system;
downloading the second data loader, at the receiver decoder; and
downloading the data loader and the data software using the second data loader.

52. (Currently Amended) A transmission system comprising:
means for transmitting a bitstream including at least one loader for loading an application in interpretative native code into a receiver/decoder, and an application software in native code associated with the at least one loader; and
means for dividing the at least one loader into a plurality of modules and dividing the application software associated with the at least one loader into a respective plurality of modules for transmittal by said transmitting means.

53. (Currently Amended) The transmission system according to claim 52, further comprising:
means for formatting each of the modules of the at least one loader as a respective table, the table of the at least one loader having the same respective table identification (“TID”) and respective different table identification extensions (“TID-extensions”); and
means for formatting each of the modules of the data software associated with the at least one loader as a respective table, the table of the modules of data having the same

respective TID as the tables of the loader modules associated therewith and respective different TID-extensions.

REMARKS

Please reconsider the application in view of the above amendments and the following remarks. Applicant thanks the Examiner for carefully considering this application.

I. Disposition of Claims

Claims 1-4, 6, 9, 13, 20-23, 25-29, 31, 34-36, 39 and 43-53 are pending in this application. Claims 1, 20, 39, and 52 are independent. Claims 1-3, 6, 20-22, 31, 39, 43, 44, 46, 49-53 have been amended by this reply to clarify the claimed invention. The remaining claims depend, directly or indirectly, from claims 1, 20, 39, and 52.

II. Specification Objection

The specification has been objected to for failing to provide proper antecedent basis for claims 9, 44, 45, 46, and 49. Claims 9, 45, 46, and 49 depend, directly or indirectly, from claim 44. Claim 44 has been amended to include the limitation, "at a transmission system," because formatting of tables is described with respect to a transmission system in the specification. Therefore, the limitation of this claim and its dependent claims are consistent with and fully supported by the instant specification. Accordingly, withdrawal of this rejection is respectfully requested.